





LMS



LMC



Laser Falcon







LMm



Laser Methane Fixed Wing



### THE NEED:

- Continuous Leak Detection
  - High Risk Areas
  - Remote Locations Without Full Time Staff

877-317-2534

- Compressor and Processing Stations
- Storage facilities for Gas and LNG
- LNG Terminals
- Wellheads
- Security:
  - Intruder Detection
  - Remote Location Video

- Monitoring and Documenting Events Until Repaired
- City Gates
- Gas Plants
- Production sites

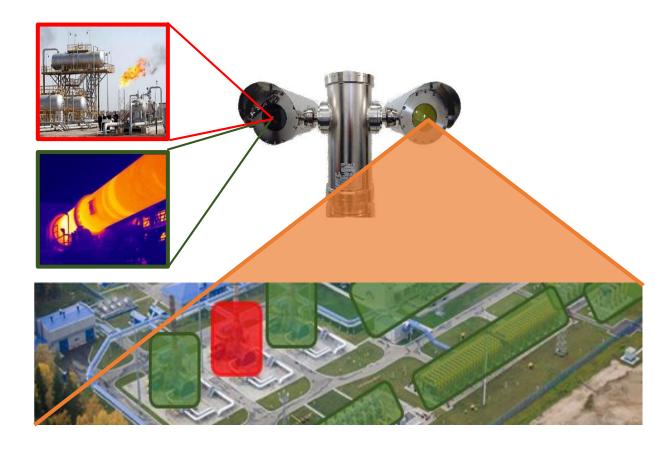




### **Basic Specification**

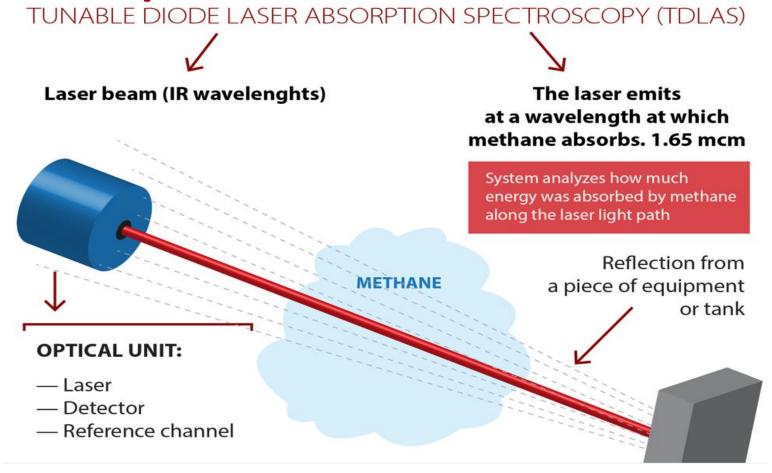
- Autonomous 24/365 Operation
- Panoramic Scanning from Elevated Fixed Installation
  - 350° Horizontally and +/- 90° Vertically
  - Custom Programmable Automatic Scanning
- Methane Sensitive
  - Range: LMS 450 ft. LMS-Mini 150 ft.
  - Sensitivity: 25ppm\*m @150 ft.
- Real-Time Monitoring and data acquisition
  - Remote Operation via VPN including manual control
  - SCADA compatibility / optional hardwired alarm signals and data Stream
- Video Capability: Visible or infrared coupled with standard intruder detection
- Real time reporting and event logging

Temperature Range -40°F - 120°F / -40°C - 50°C. Optional to 155°F / 70°C





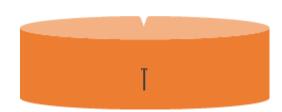
## **Detection Principle:**



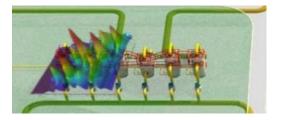


# LMS / LMS-Mini COST EFFECTIVE

- 1. Customized, Flexible, Easily Editable Scan Program
  - Modify Scan for Additions, Manage Wind Variance, Monitoring Known leaks...



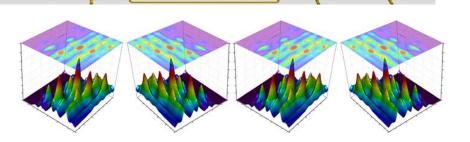
- 2. Only One Device Instead of Multiple Static Sampling Device
  - Need 2-6 Static Sampling Devices Per Location to Account for Wind Variance



- 3. Only ATEX Zone 2 (Division 2) Required
  - Due to Range and Location on Mast



Statistical Population Comparison via 3D Plots of Monthly Area Scan Data.





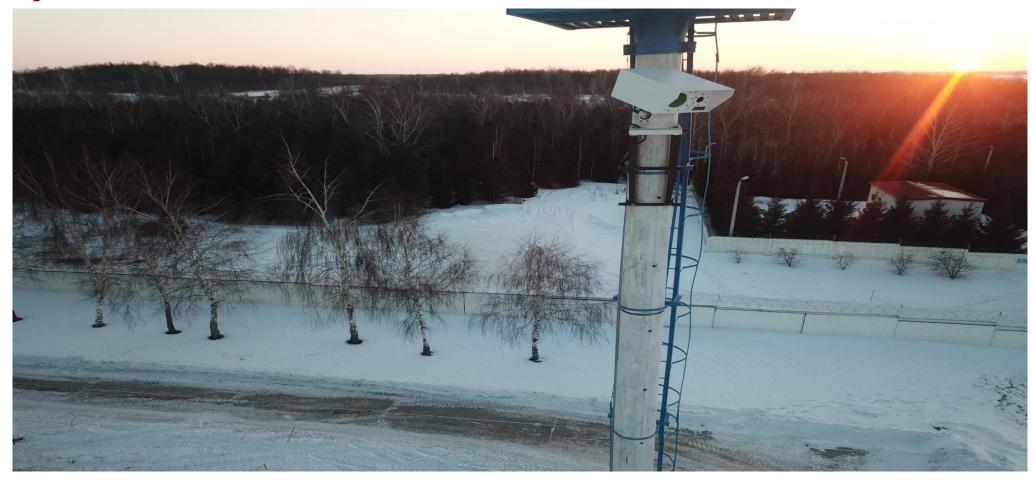
# LMS / LMS-Mini INSTALLATION

- 1. Mast or structure to support 145lbs PTZ and 22lbs of support equipment (15ft from PTZ)
- 2. 110 or 220 VAC electrical to support equipment box
- 3. 110 or 220 VAC electrical to computer/laptop
- Network connection between support equipment box and computer/laptop
- 5. Internet or internal network connection for computer/laptop
- For field install, rain proof housing for computer/laptop
- Optional hardwired digital output to Facility Safety/SCADA
  - Can be located either in support equipment box or at computer/laptop
- Installation consultation (4 hours), drawings, and on-site start-up included

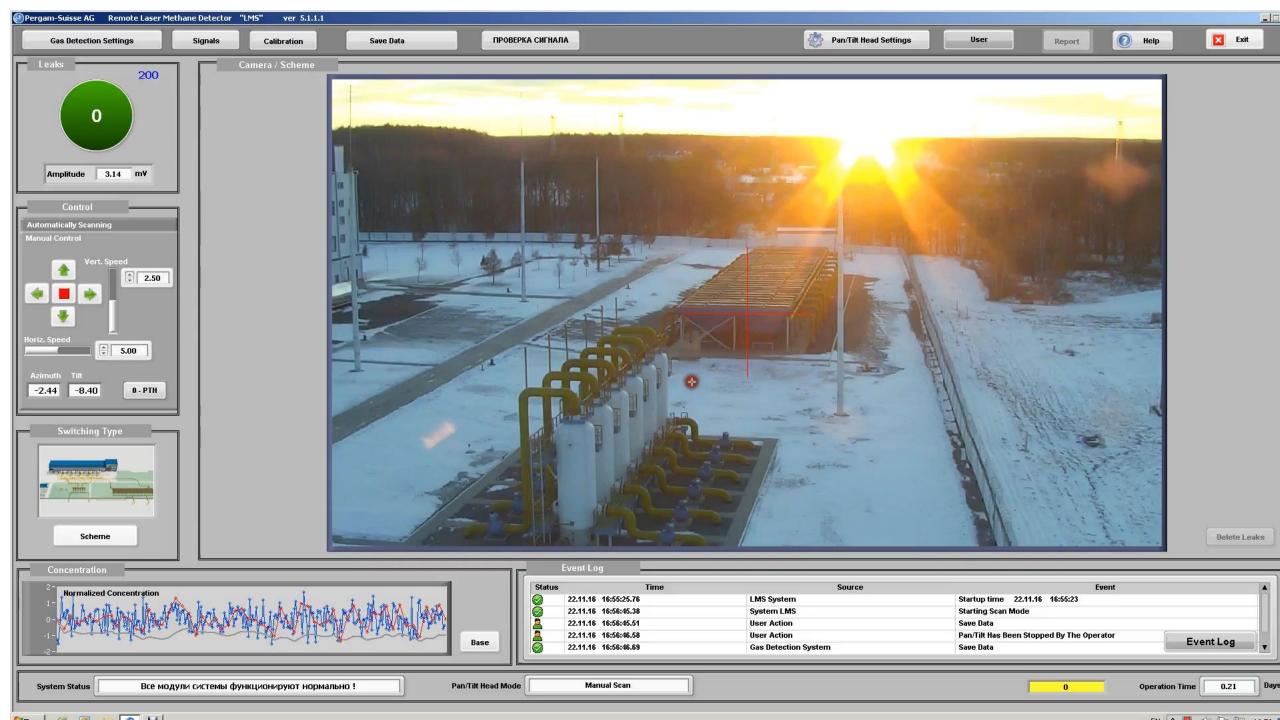




# LMS / LMS-Mini INSTALLATION







#### LMS mini Portable Demo Installation





#### For a field evaluation please contact Johan at 425-503-8127



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